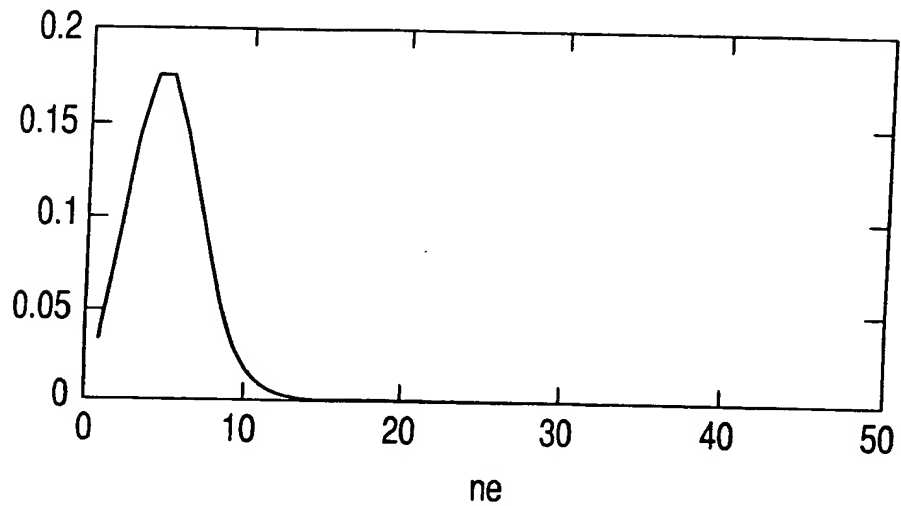


1/5

ns := 500 BER := 0.01 NE := ns · BER
ne := 1,2.. 50

dpois (ne,NE)

Fig. 1



ne := 15

D := .000085

NE_{low} := 0.5qchisq(D, 2ne)

NE_{low} = 4.56

NE_{high} := 0.5qchisq(1 - D, 2ne)

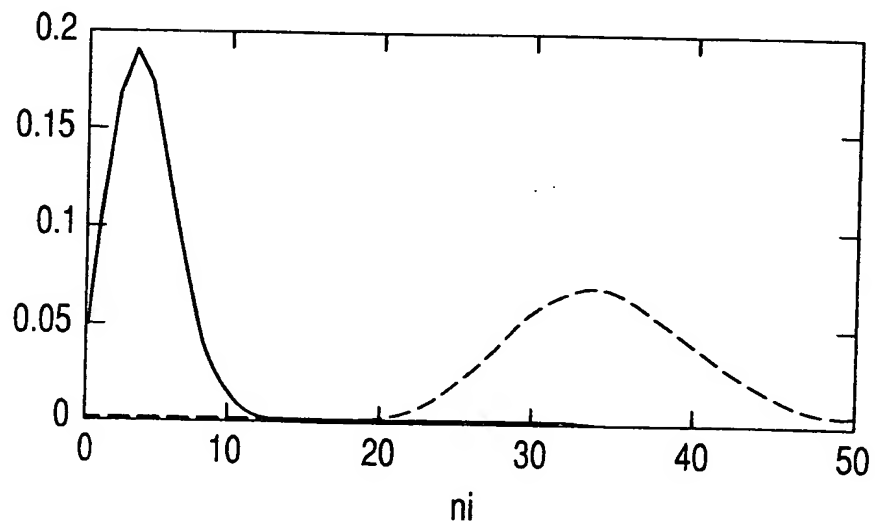
NE_{high} = 34.085

ni := 1,2.. 50

dpois (ni,NE_{low})

dpois (ni,NE_{high})

Fig. 2



$D := 0.000085$ $ne := 1, 2, \dots, 1000$ $2/5$

$$\text{bernornpass}(ne, D) := \frac{2ne}{qchisq(1 - D, 2 \cdot ne)}$$

$$\text{bernornfail}(ne, D) := \frac{2ne}{qchisq(D, 2ne)}$$

bernornpass(ne, D)
bernornfail(ne, D)

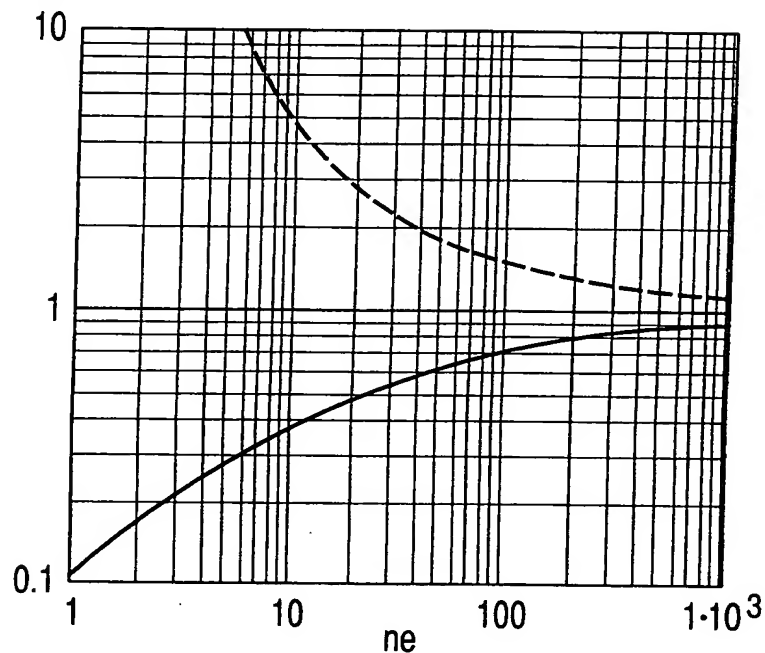


Fig. 3

$M := 1.5$ $D := 0.000085$ $ne := 1, 2, \dots, 1000$

$$\text{berlimbad}_{\text{pass}}(ne, D) := 2 \cdot \frac{ne}{qchisq(1 - D, 2 \cdot ne)} \cdot M$$

$$\text{berlim}_{\text{fail}}(ne, D) := 2 \cdot \frac{ne}{qchisq(D, 2 \cdot ne)}$$

berlim_{fail}(ne, D)
berlimbad_{pass}(ne, D)
M

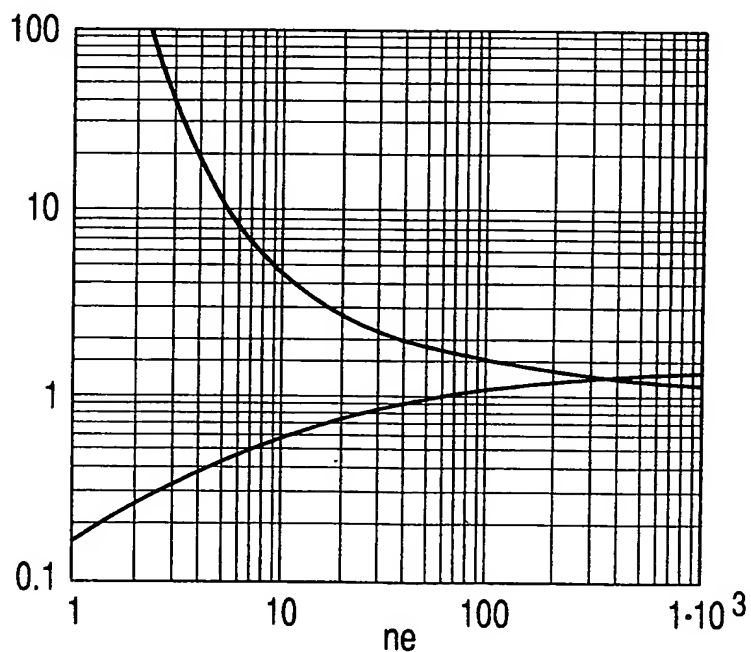


Fig. 4

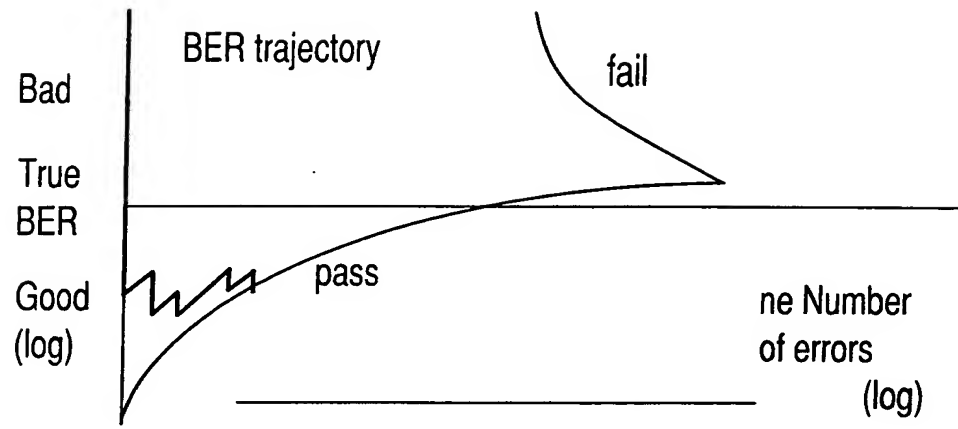


Fig. 5

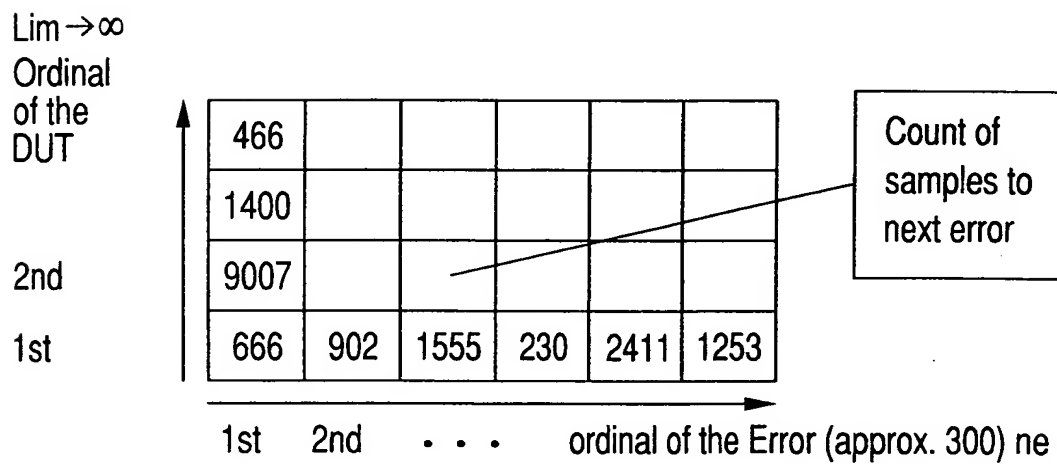


Fig. 6

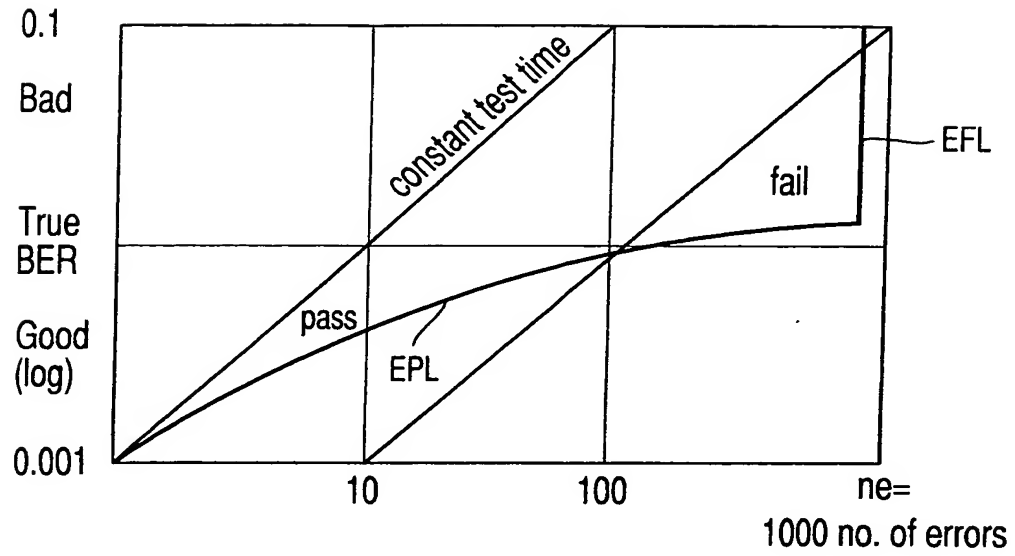


Fig. 7

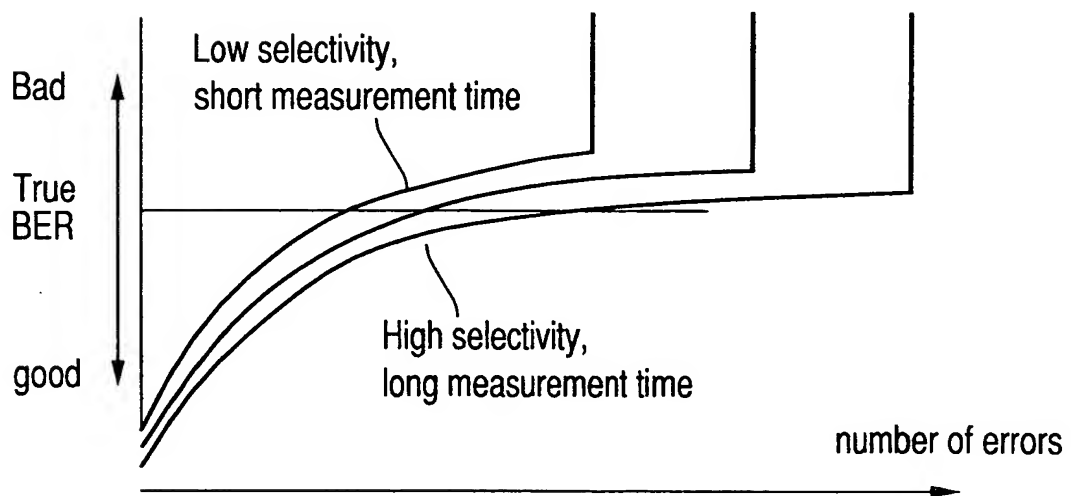


Fig. 8

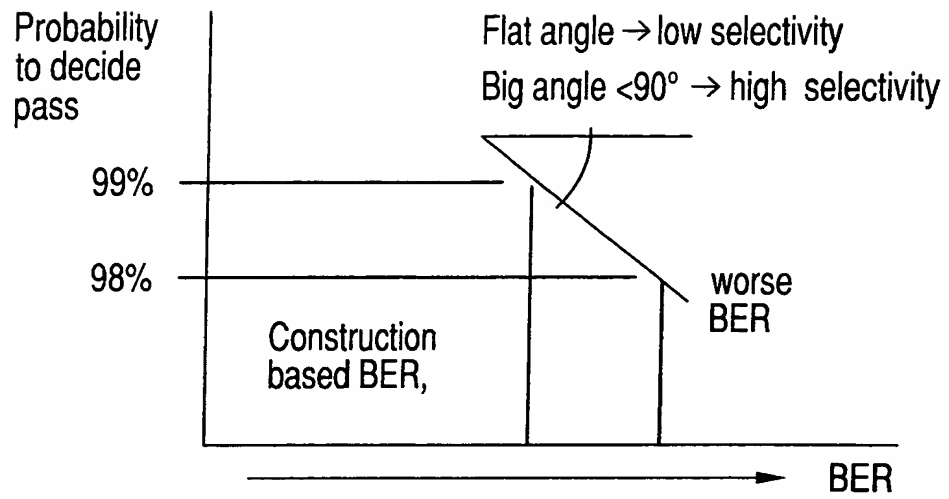


Fig. 9

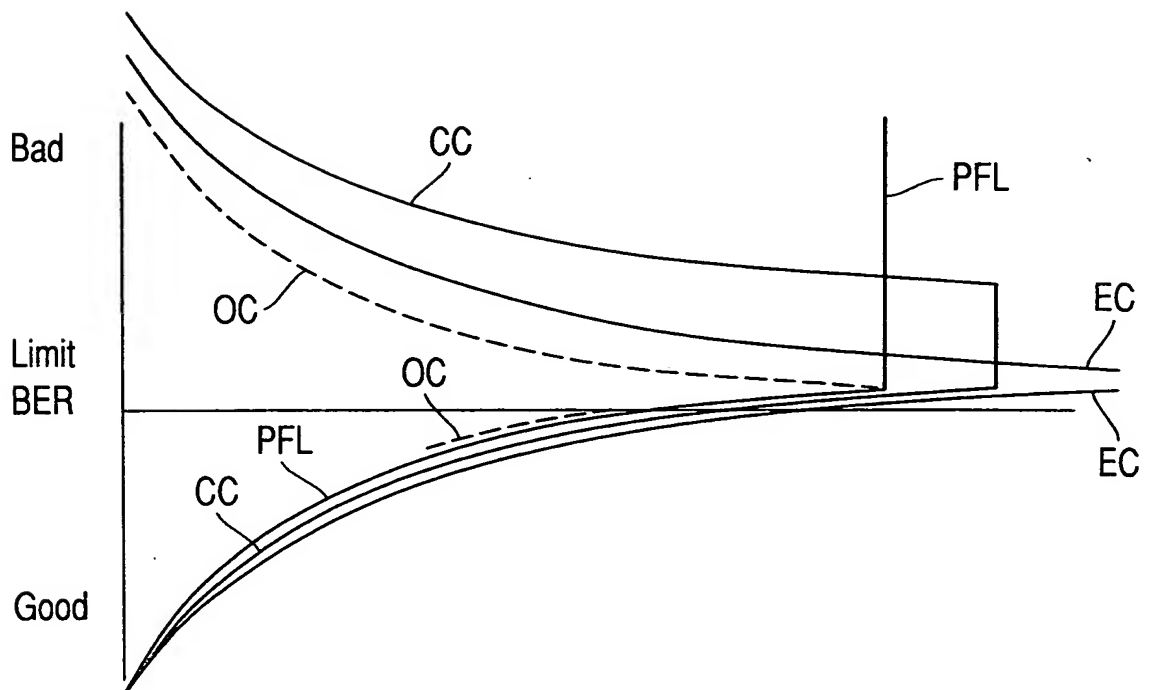


Fig. 10